

Fig. 1

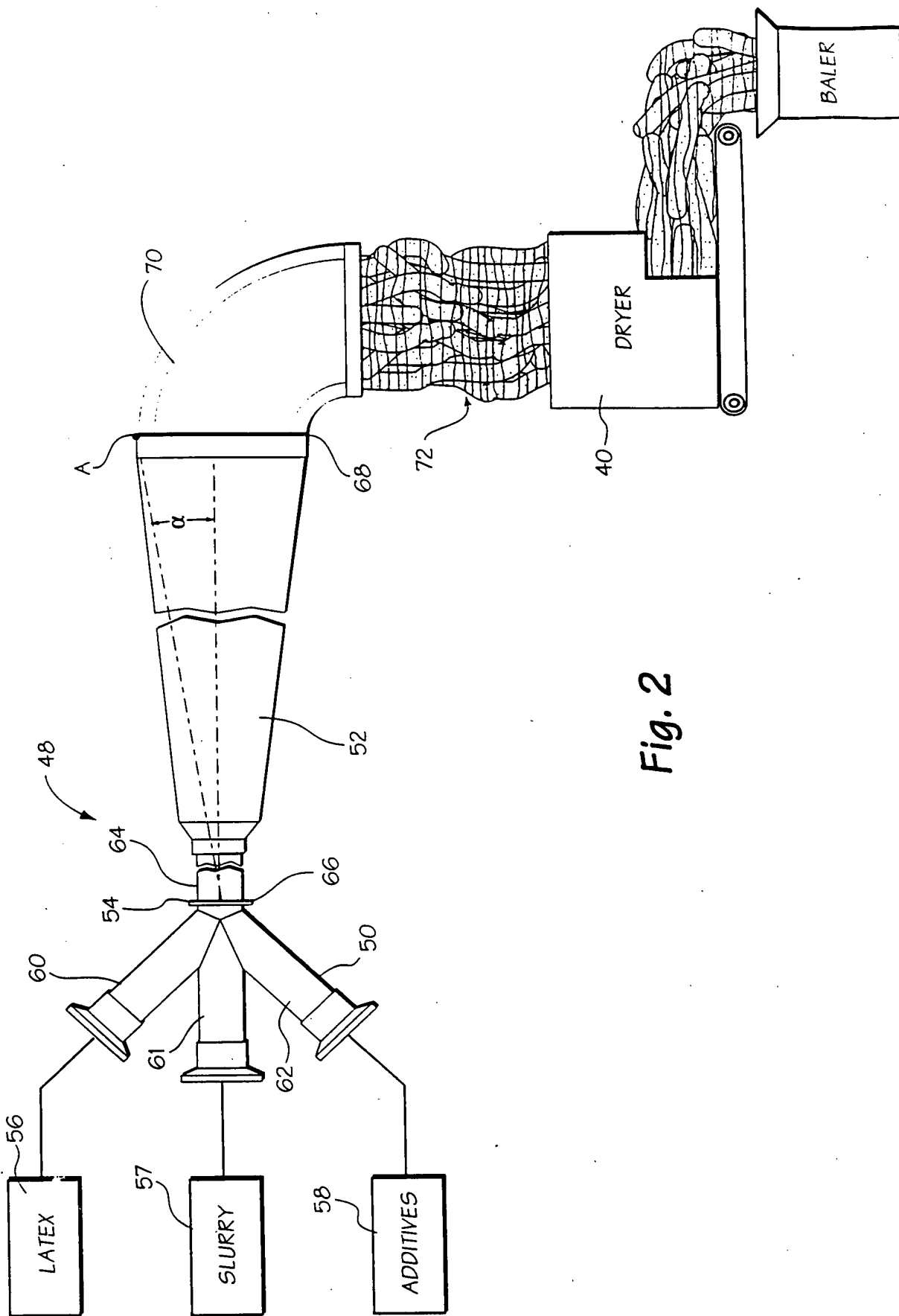


Fig. 2

08823441.032597

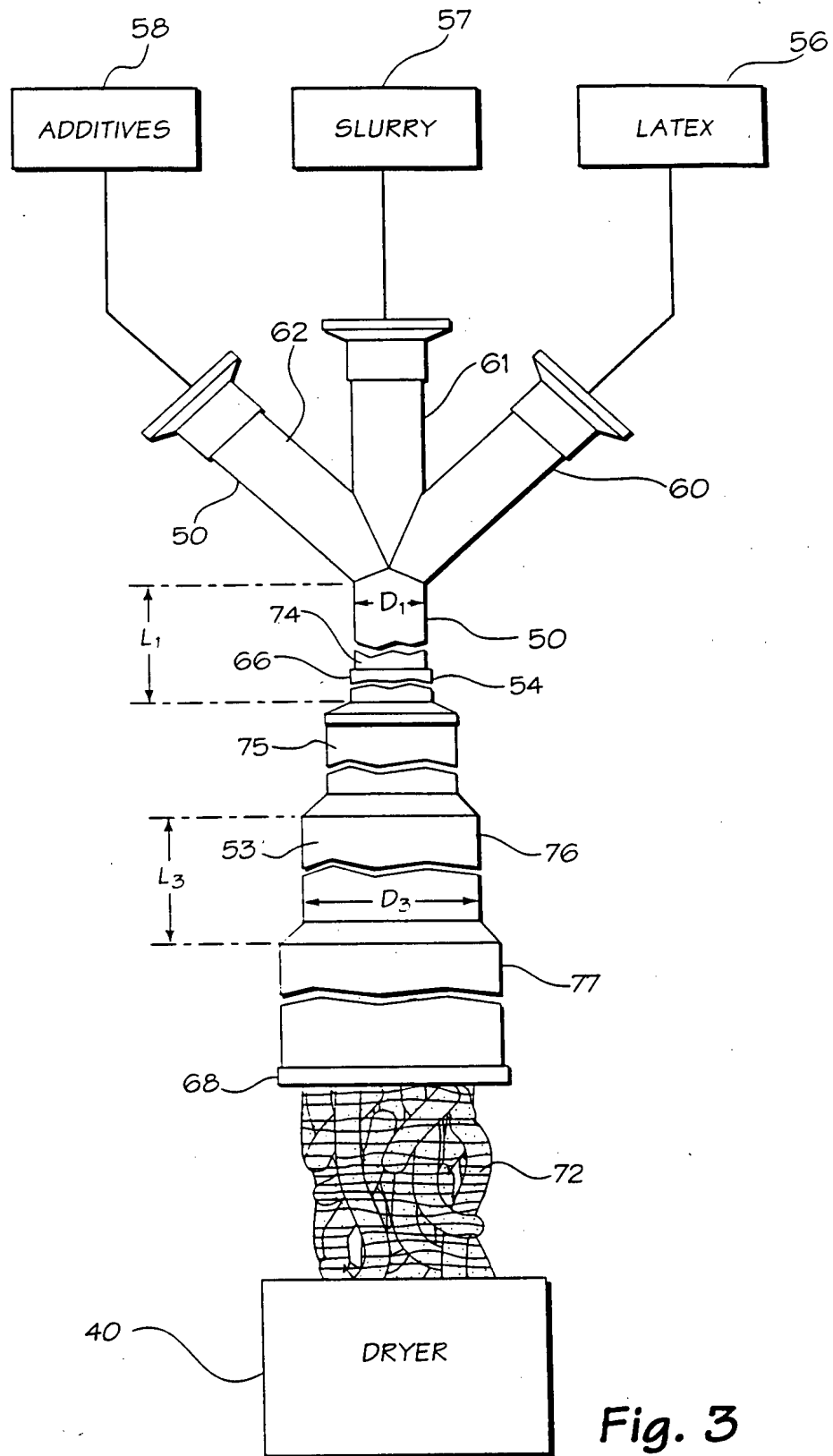
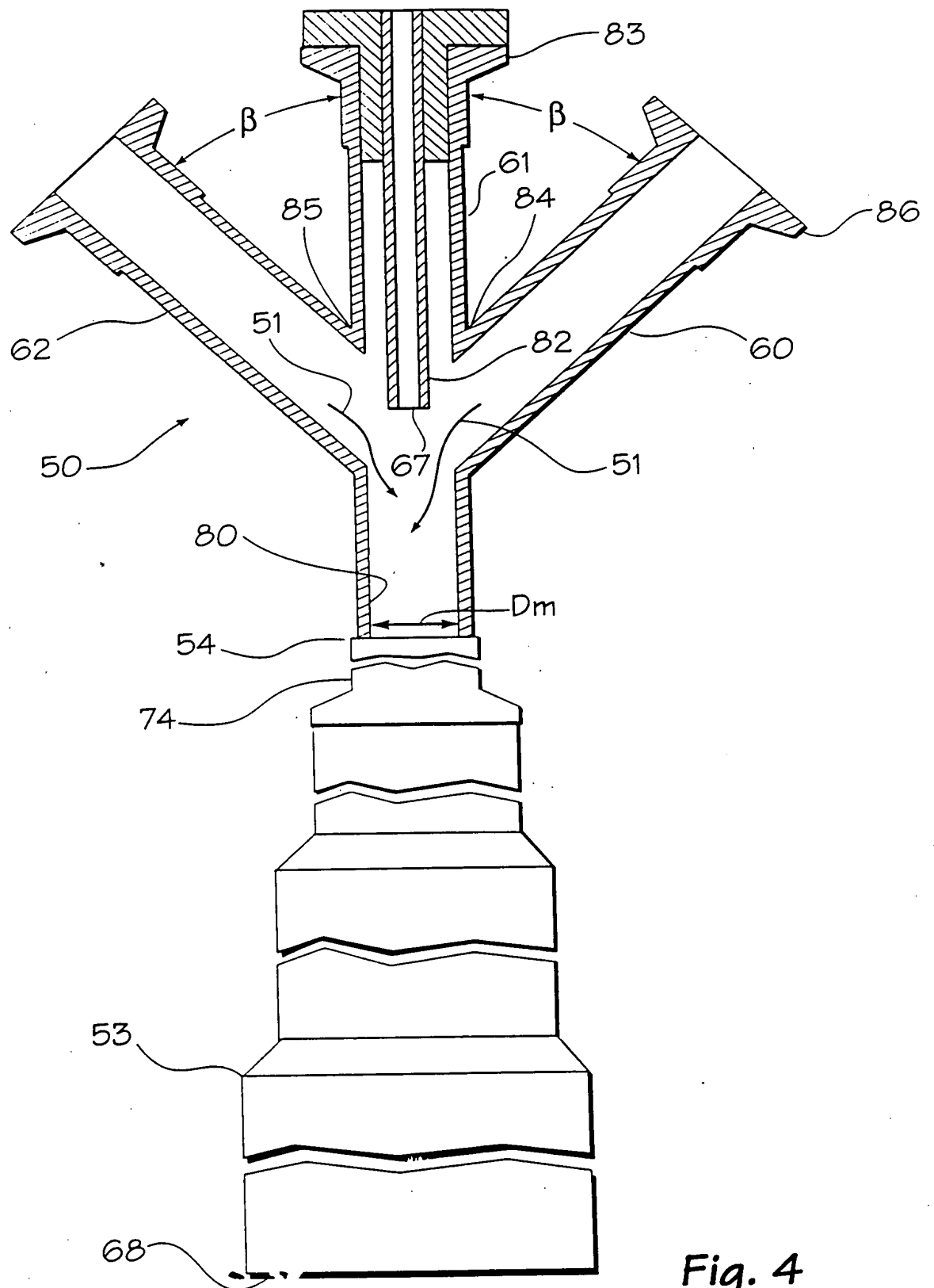


Fig. 3

08823411.032597



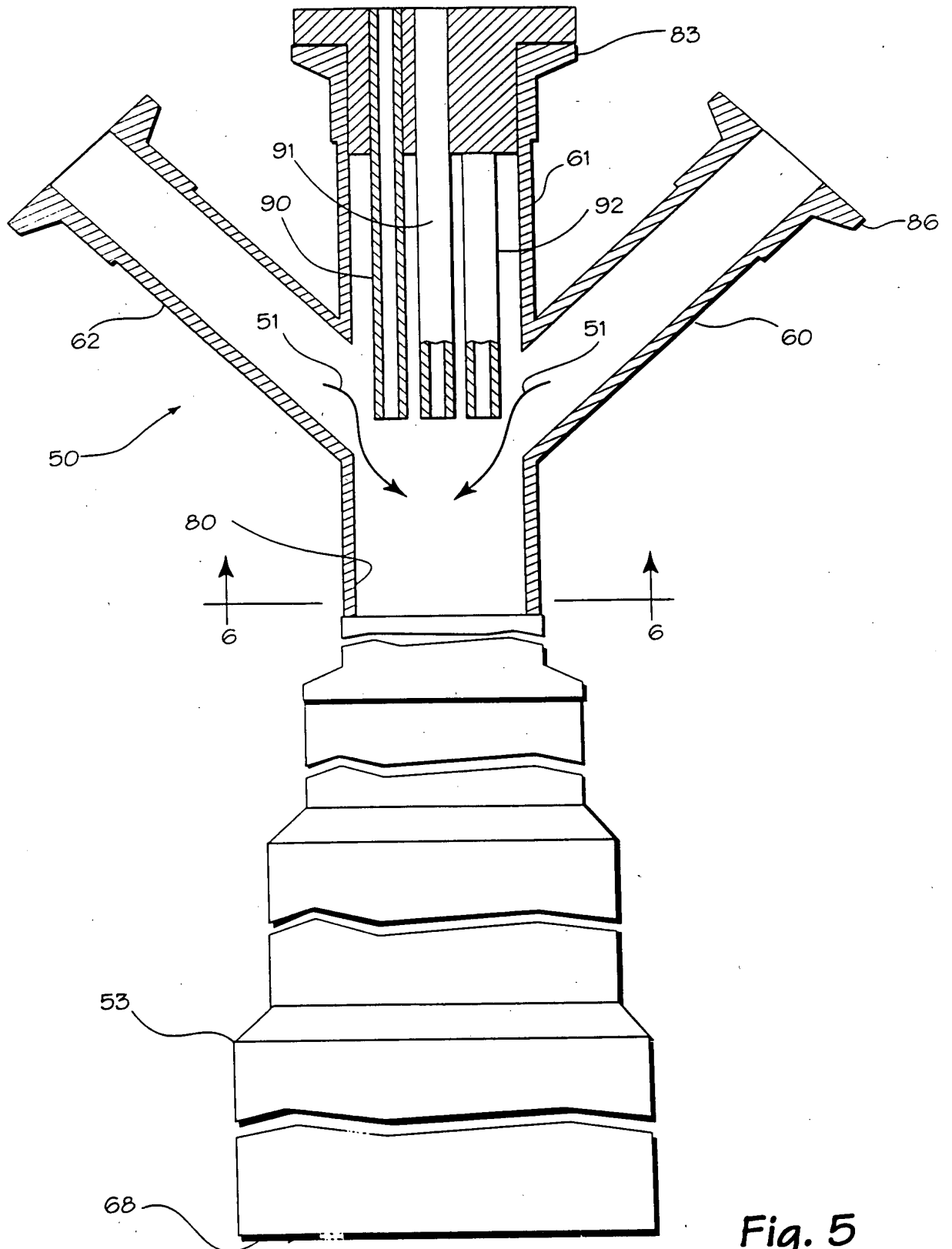


Fig. 5

08023441.032597

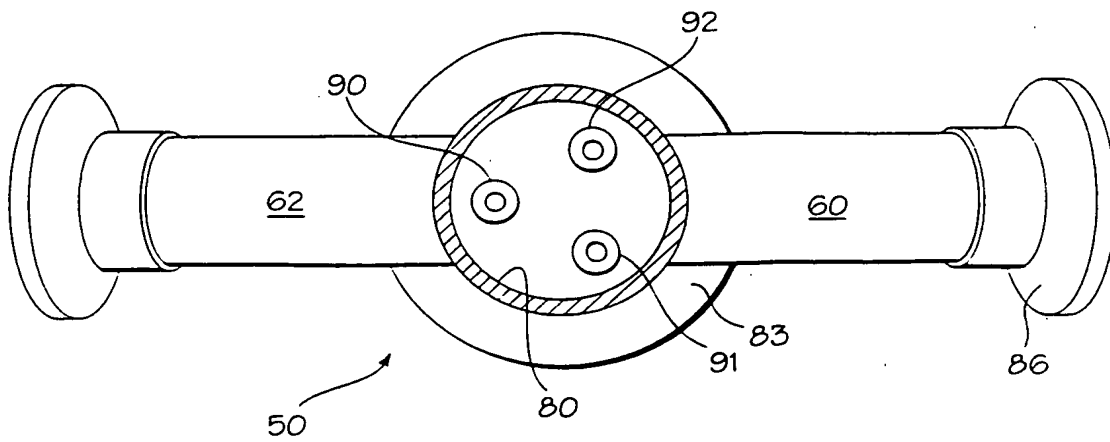


Fig. 6

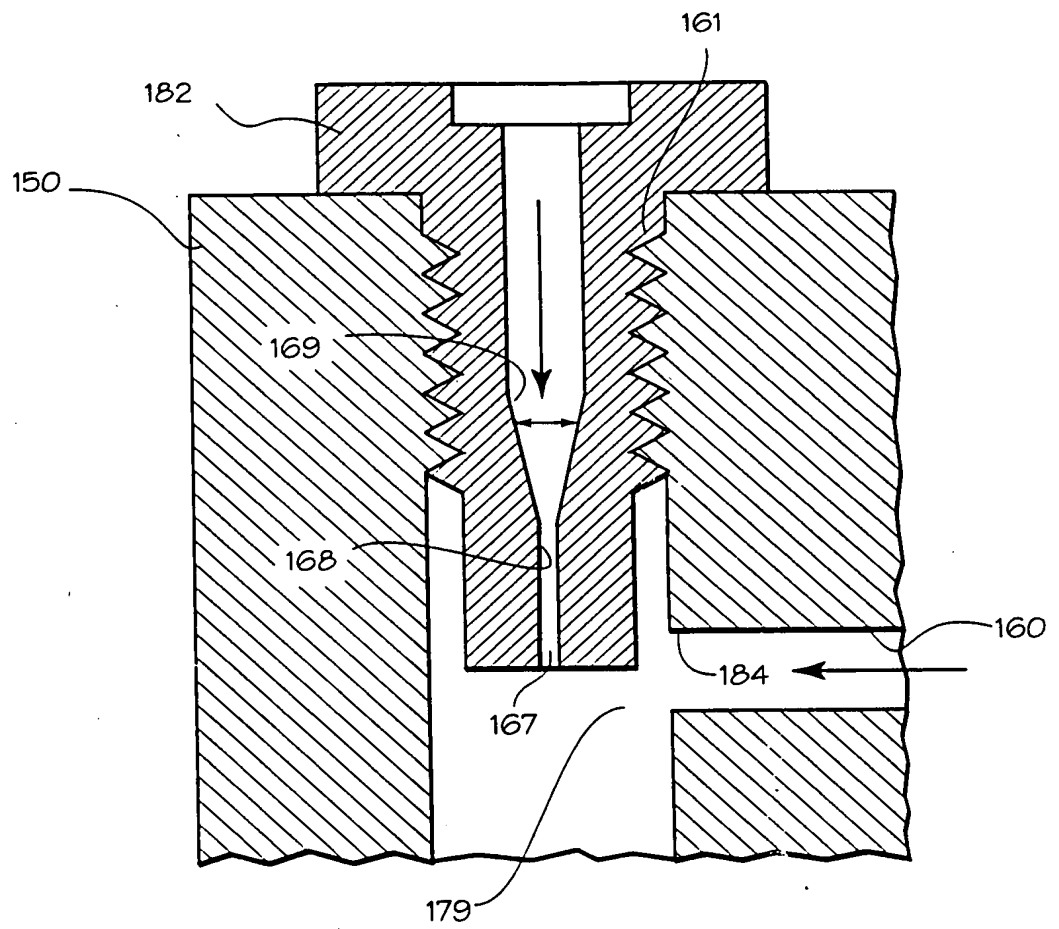


Fig. 7

08823411.032597
/65250" TTE2880

Figure 8 Carbon Black Morphology Map

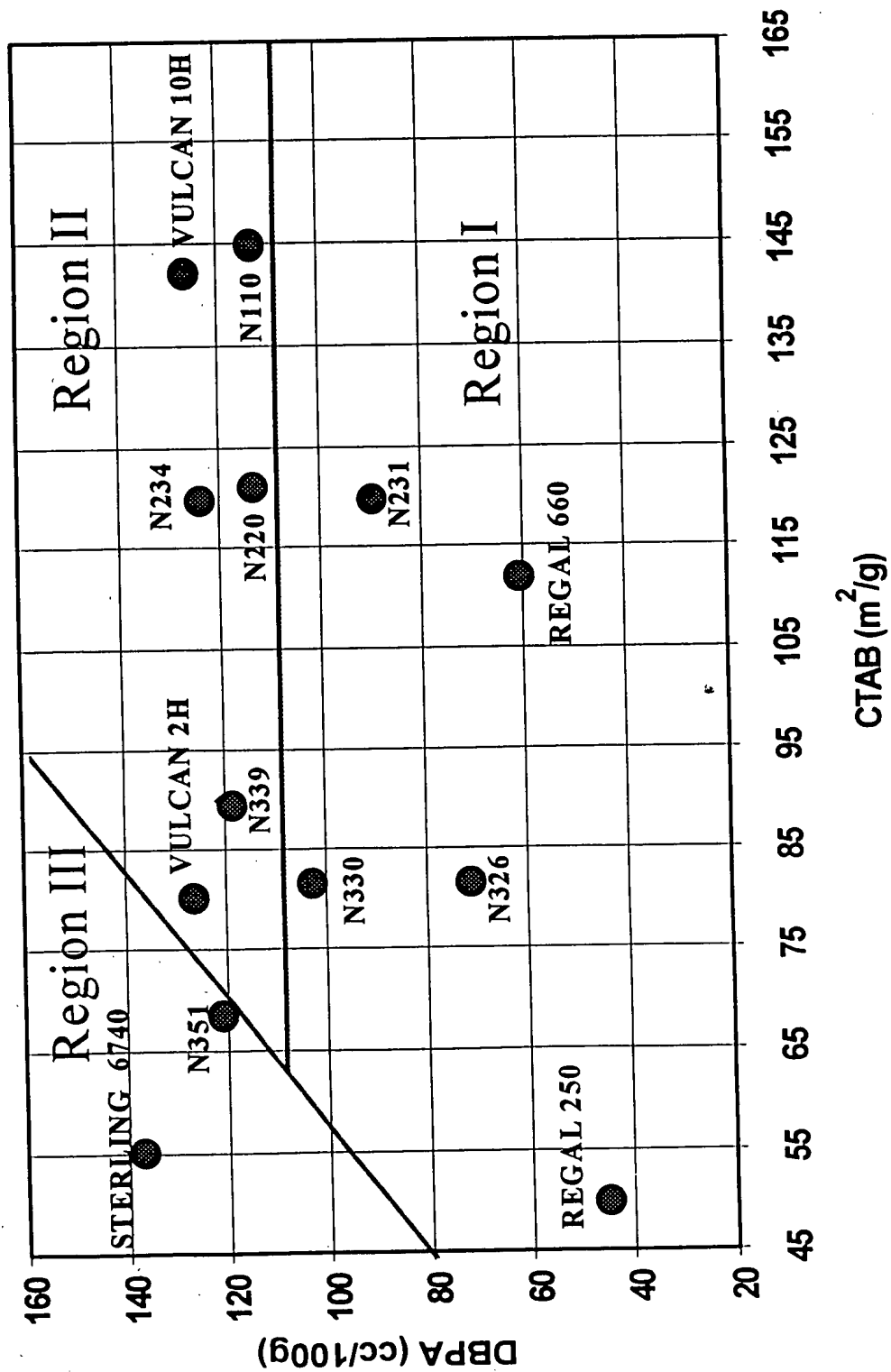


Figure 9 Dispersion Quality and MW_{sol} of NR Masterbatches

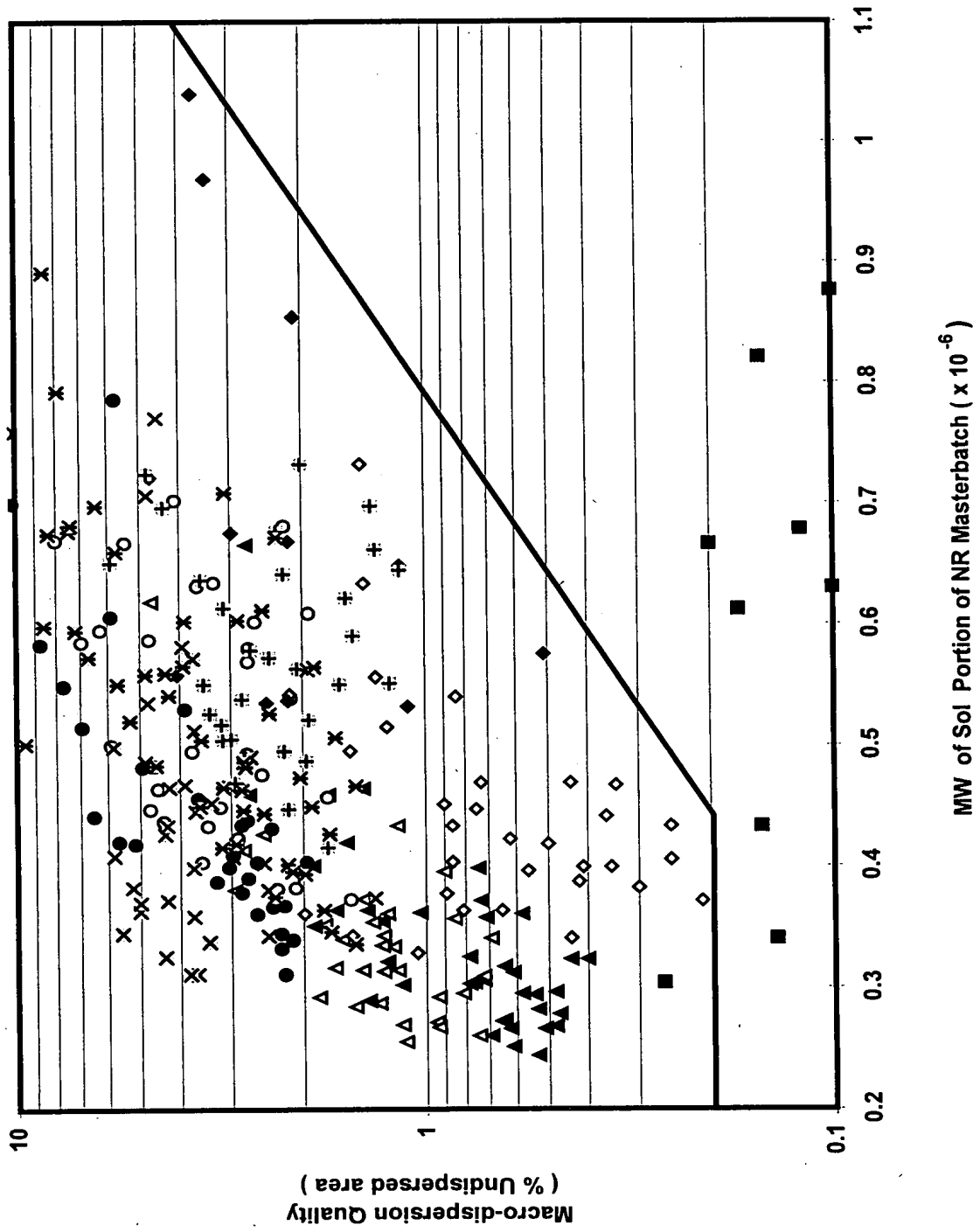


Figure 10 Dispersion Quality and MW_{sol} of NR Masterbatches
(Region I)

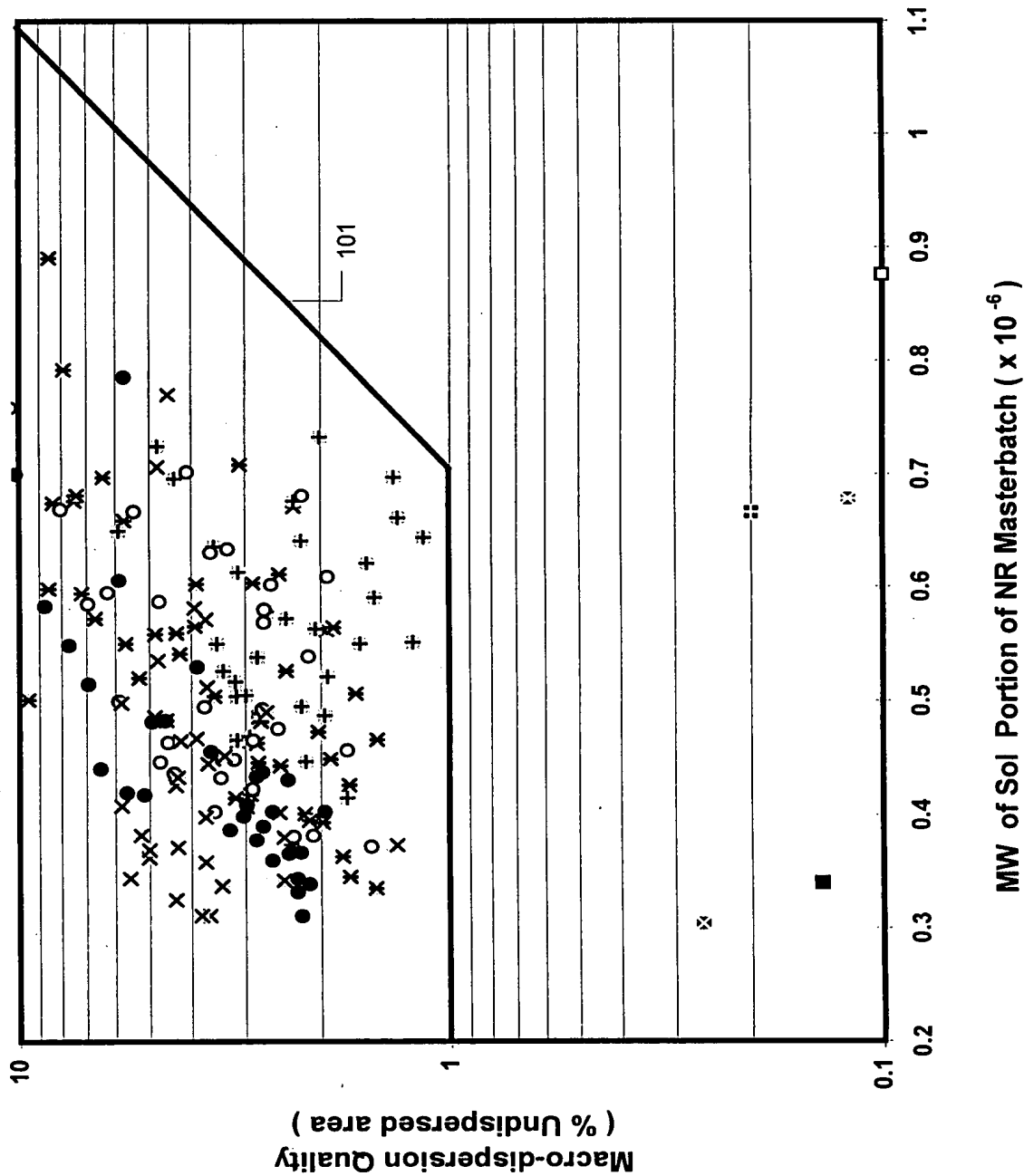


Figure 11 Dispersion Quality and MW_{sol} of NR Masterbatches
(Region II)

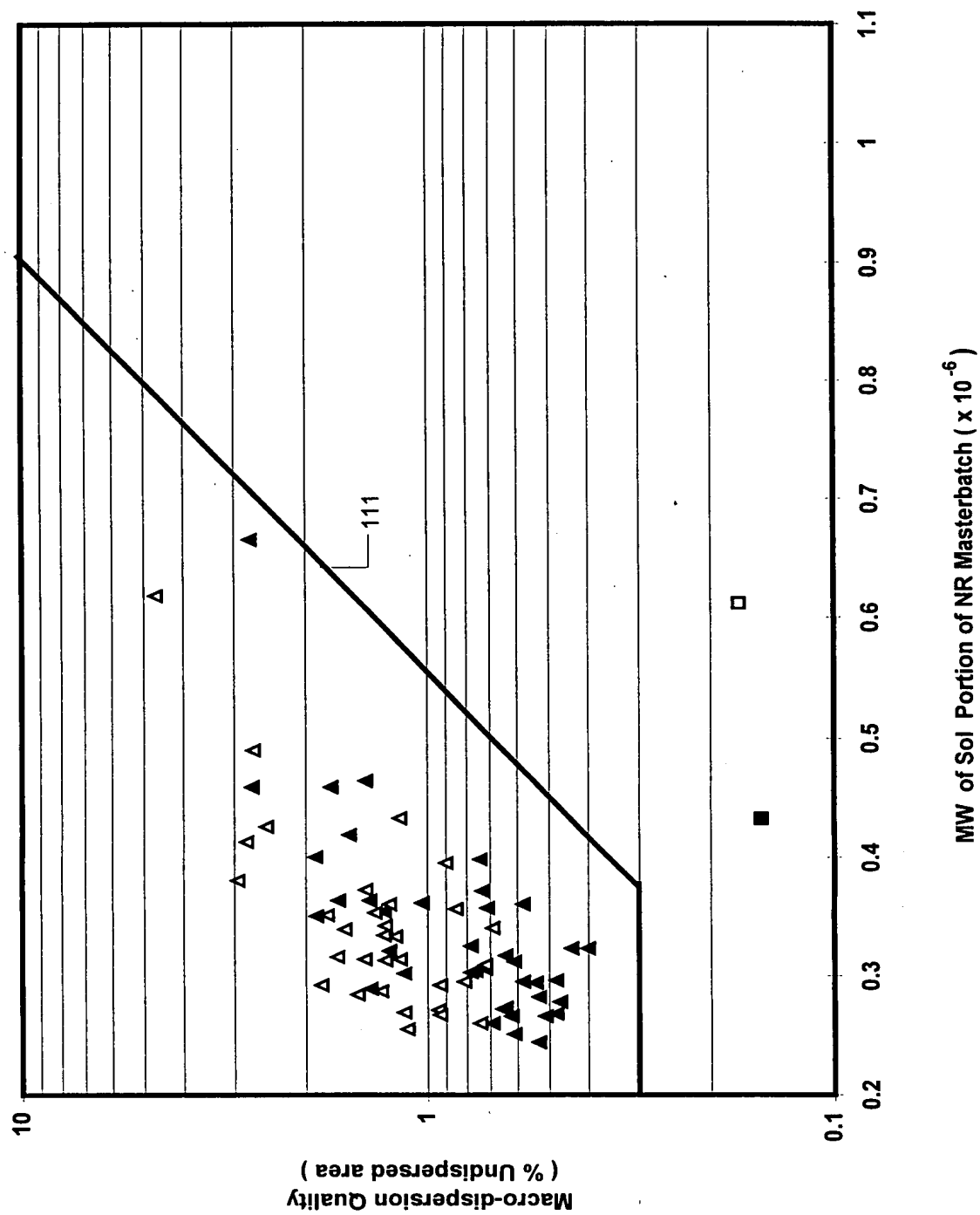


Figure 12 Dispersion Quality and MW_{sol} of NR Masterbatch
(Region III)

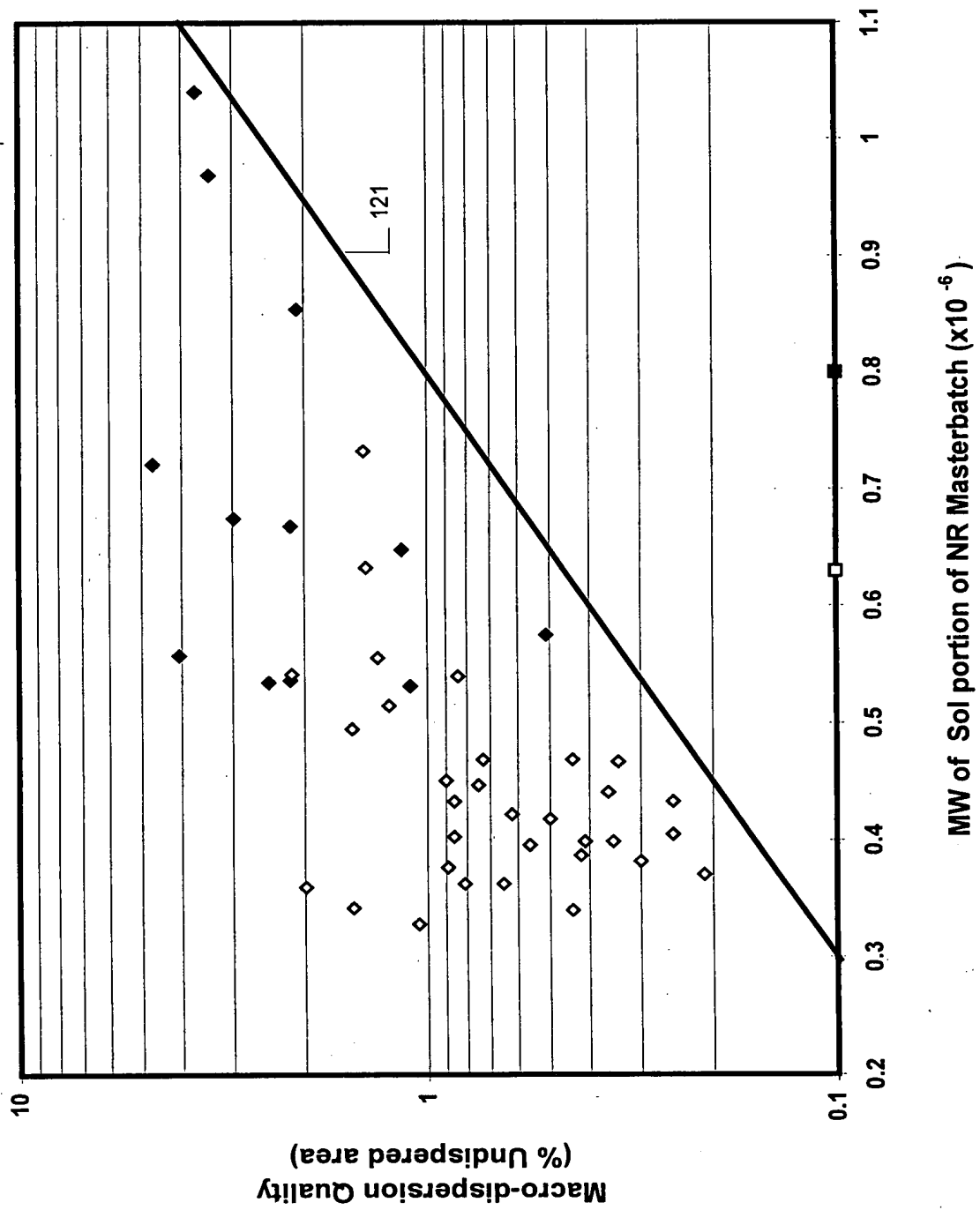


Figure 13 Dispersion Quality and MW_{sol} of NR Masterbatches
(N330 Carbon Black, 55 phr)

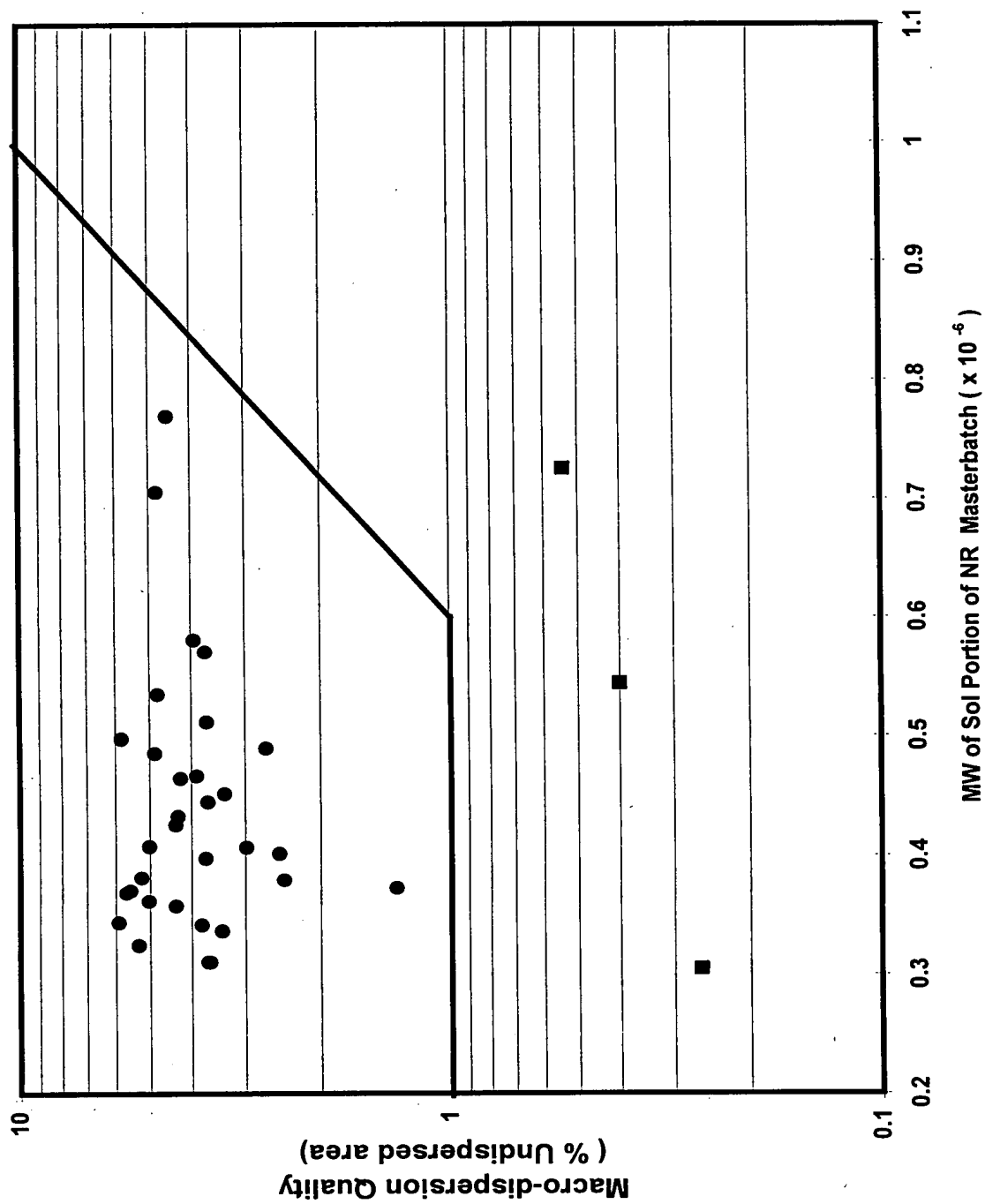


Figure 14 Dispersion Quality and MW Sol of NR Masterbatches
(REGAL 250 Carbon Black)

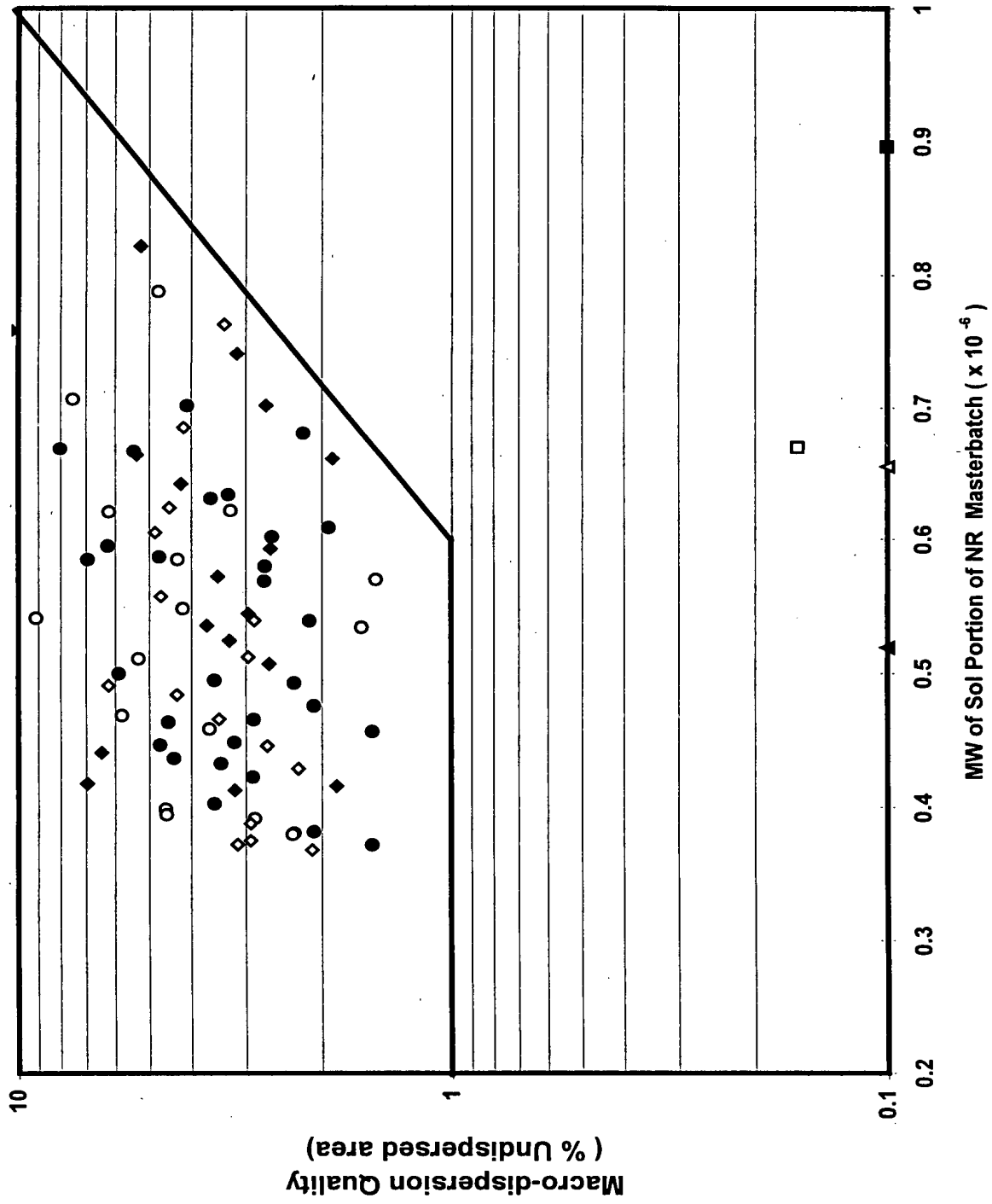


Figure 15 Dispersion Quality and MW_{sol} of NR Masterbatches
(BLACK PEARL 800 Carbon Black, 55 phr)

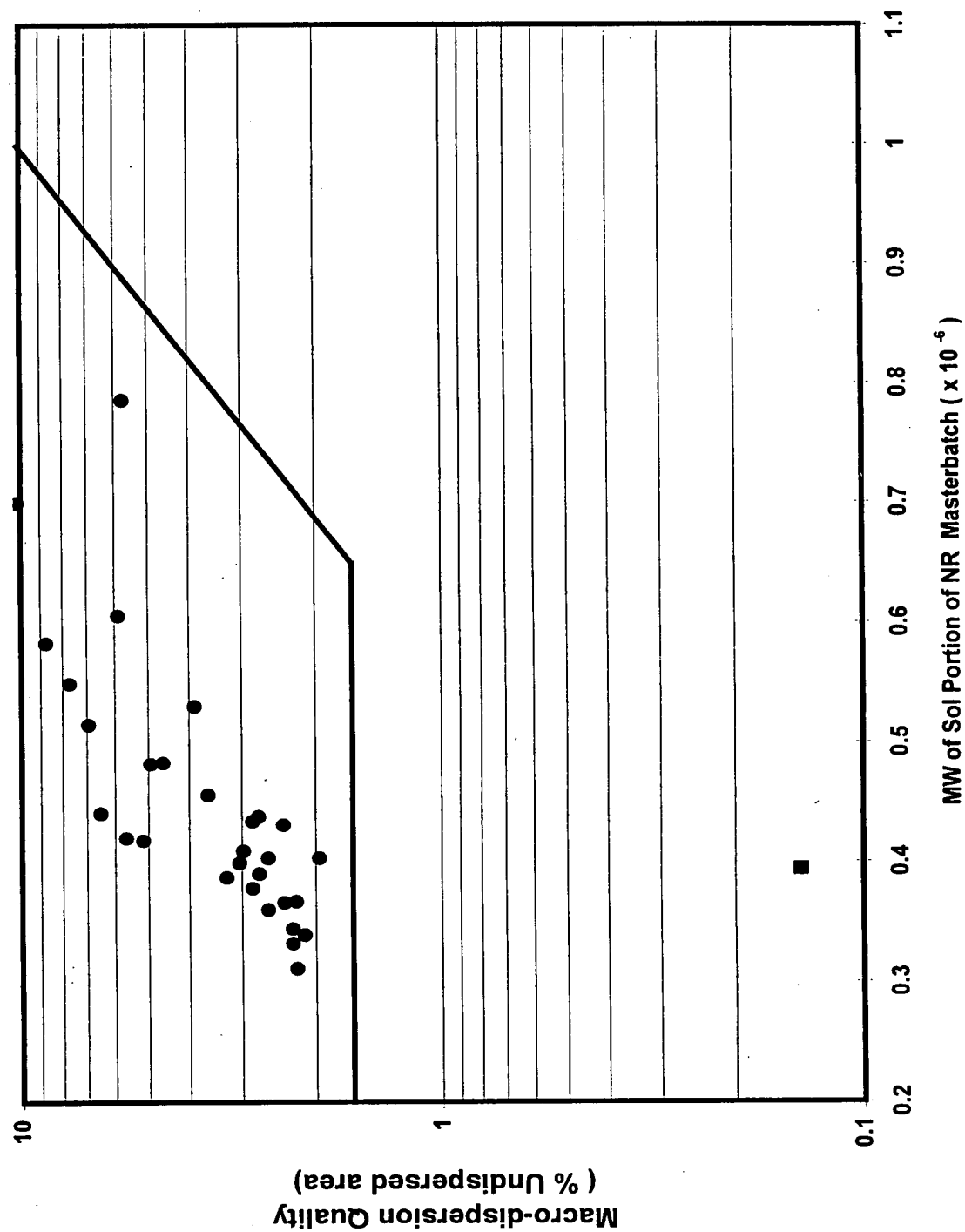


Figure 16 Dispersion Quality and MW Sol of NR Masterbatches
(N326 Carbon Black, 55 phr)

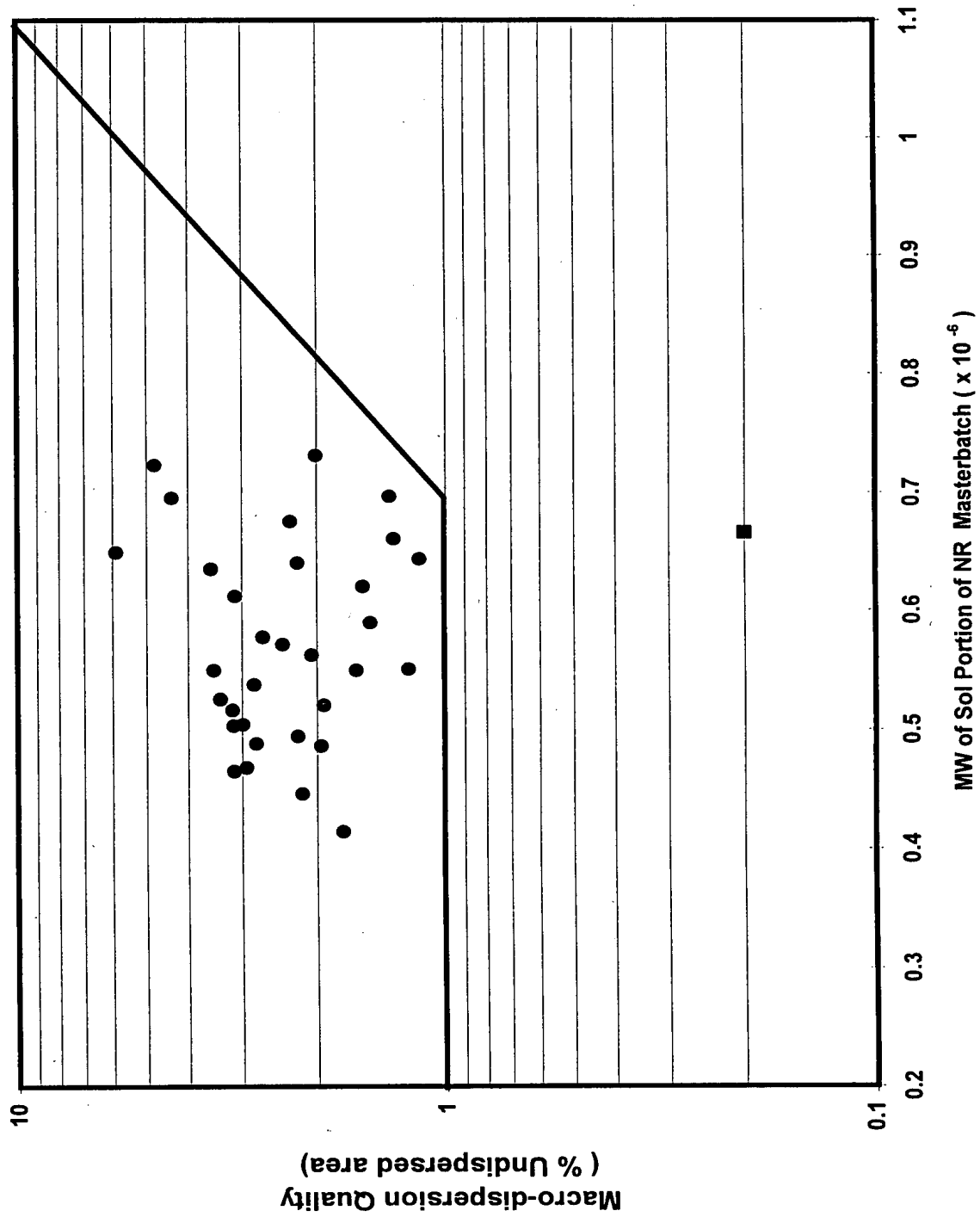


Figure 17 Dispersion Quality and MWSol of NR Masterbatches
(REGAL 660 Carbon Black)

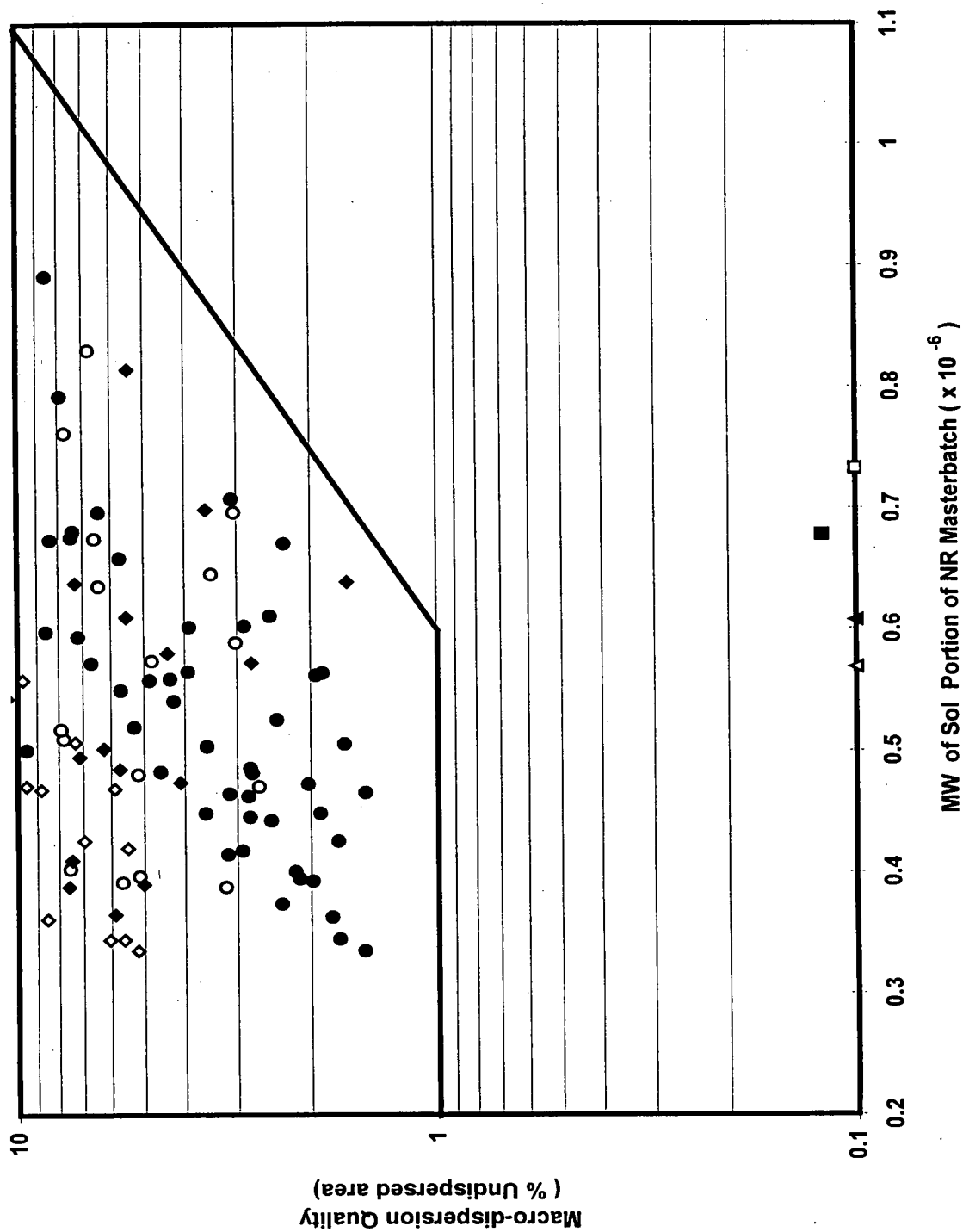


Figure 18 Dispersion Quality and MW sol of NR Masterbatches
(N234 Carbon Black)

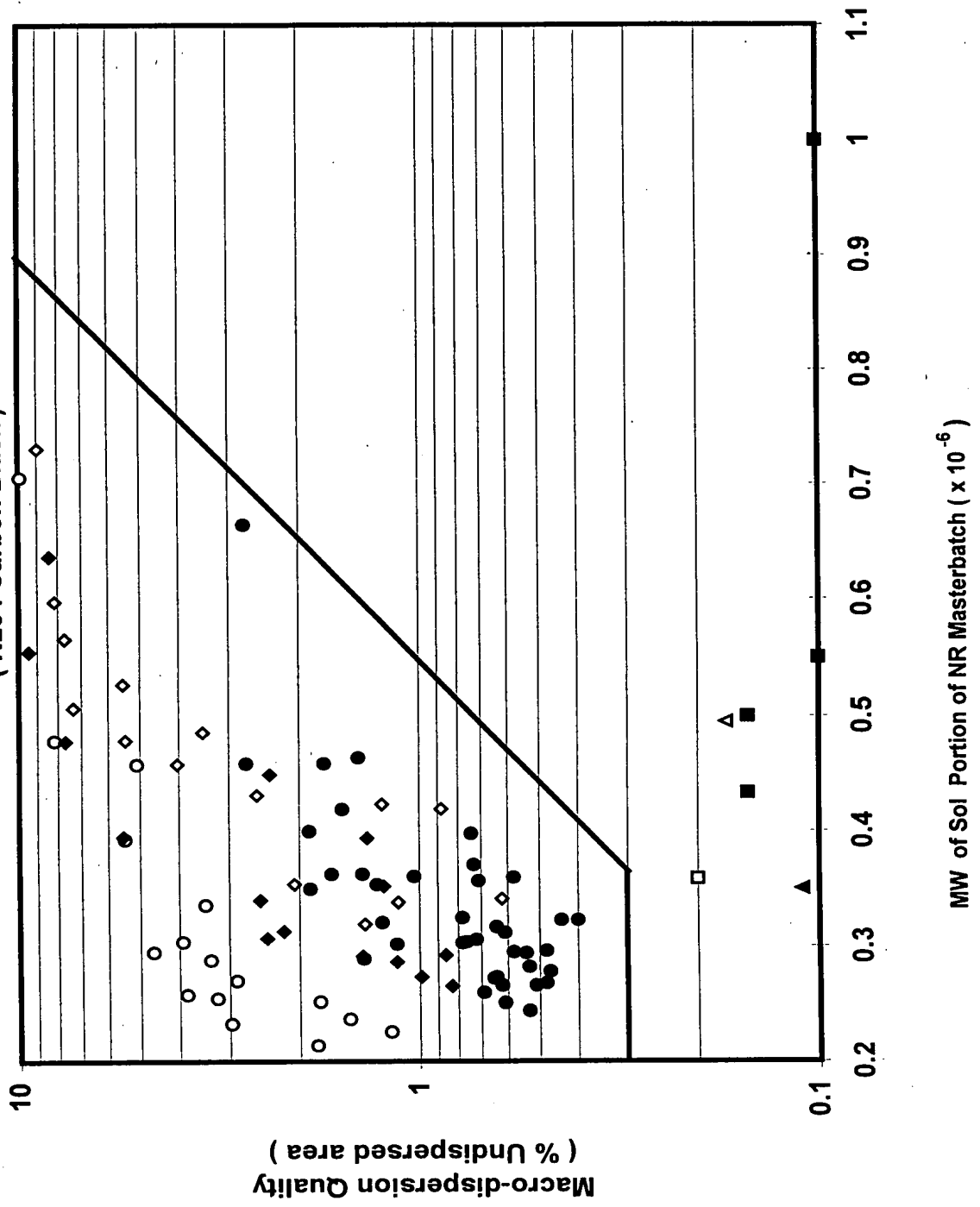


Figure 19 Dispersion Quality and MW Sol of NR Masterbatches
(N110 Carbon Black, 55 phr)

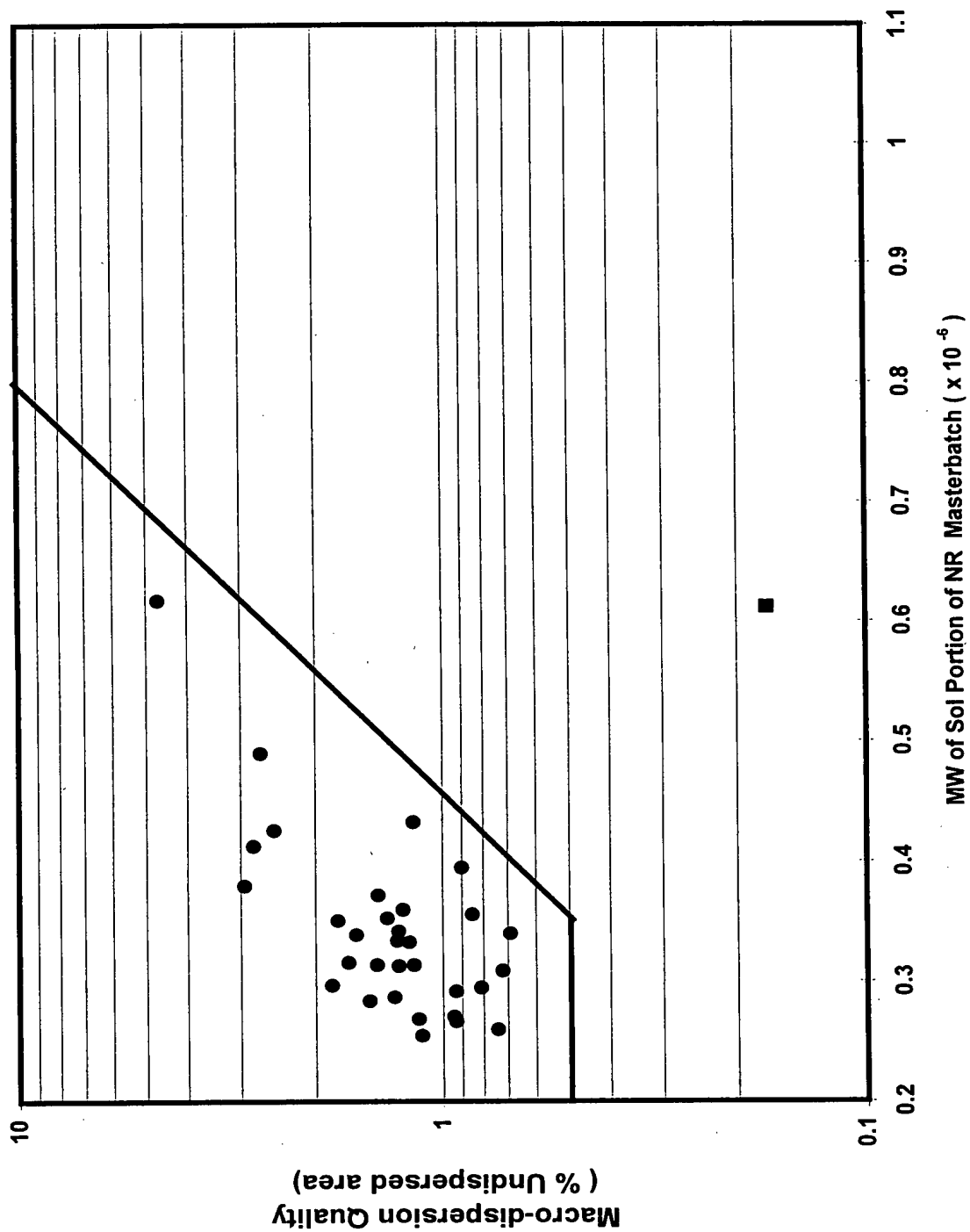


Figure 20 Dispersion Quality and MW_{sol} of NR Masterbatch
(N351 Carbon Black, 33 phr)

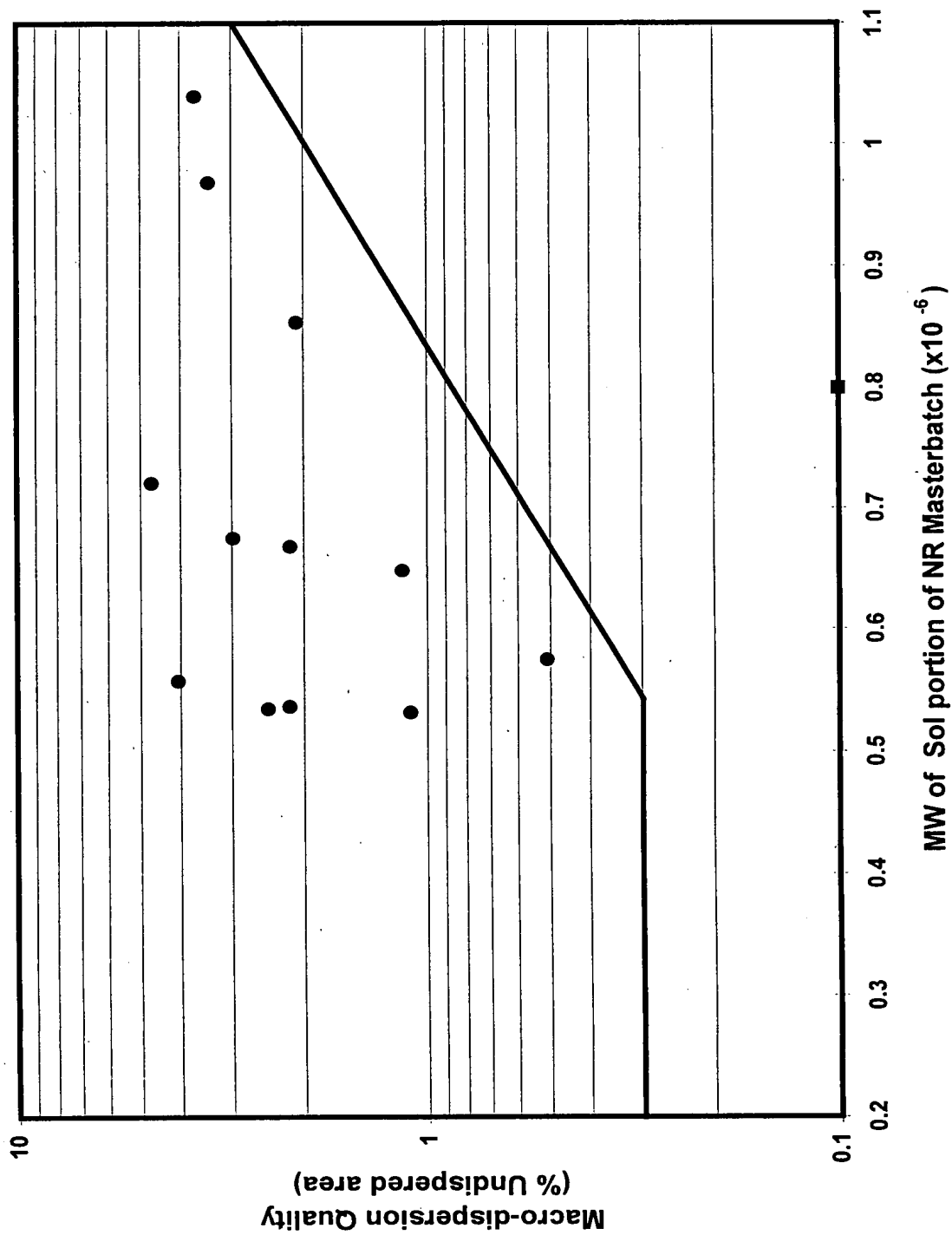


Figure 21 Dispersion Quality and MW Sol of NR Masterbatches
(STERLING 6740 Carbon Black, 55 phr)

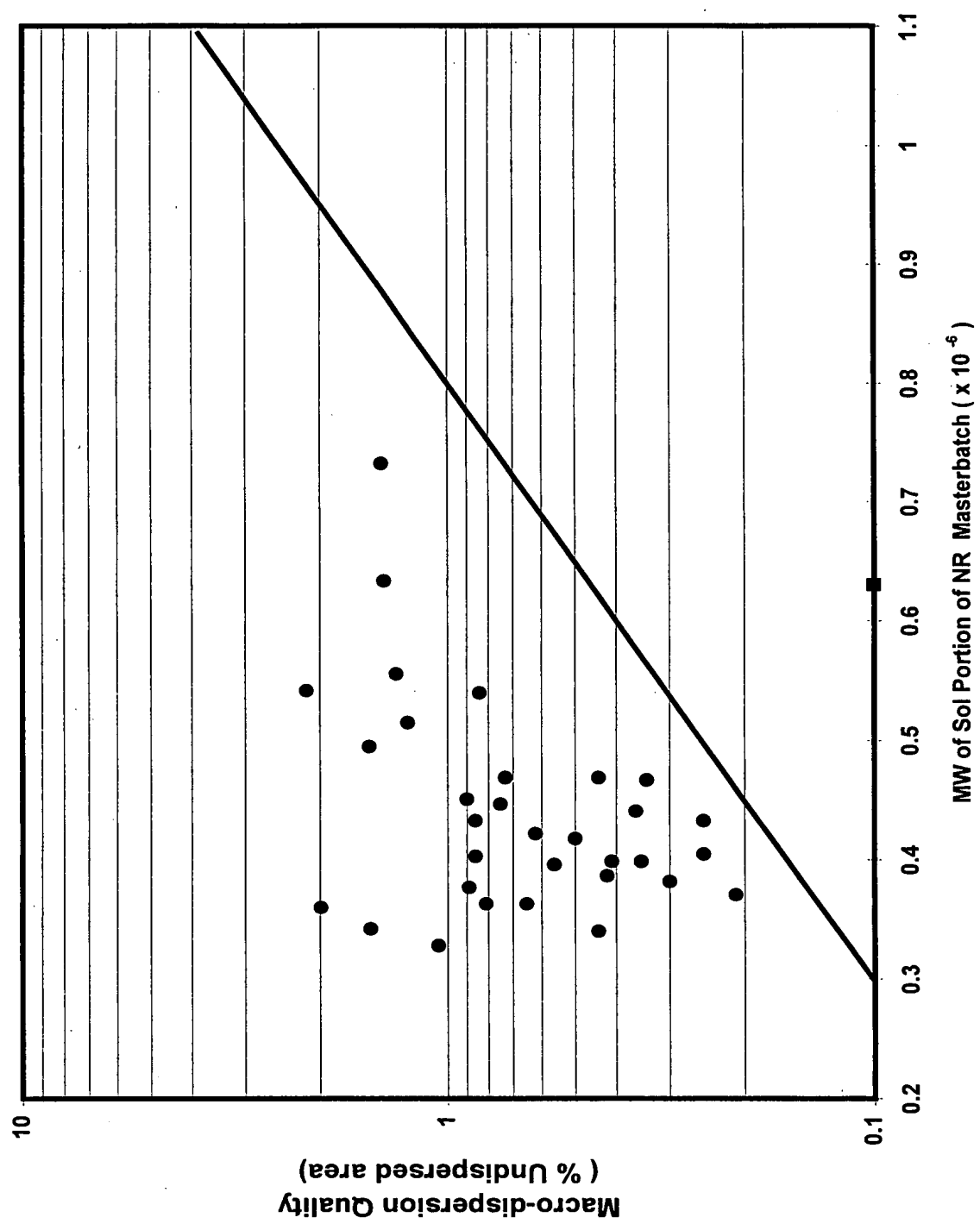


Figure 22 MW sol Effect on Crack Growth Rate
(NR Compounds Containing N234 Carbon Black @ 55 phr Loading)

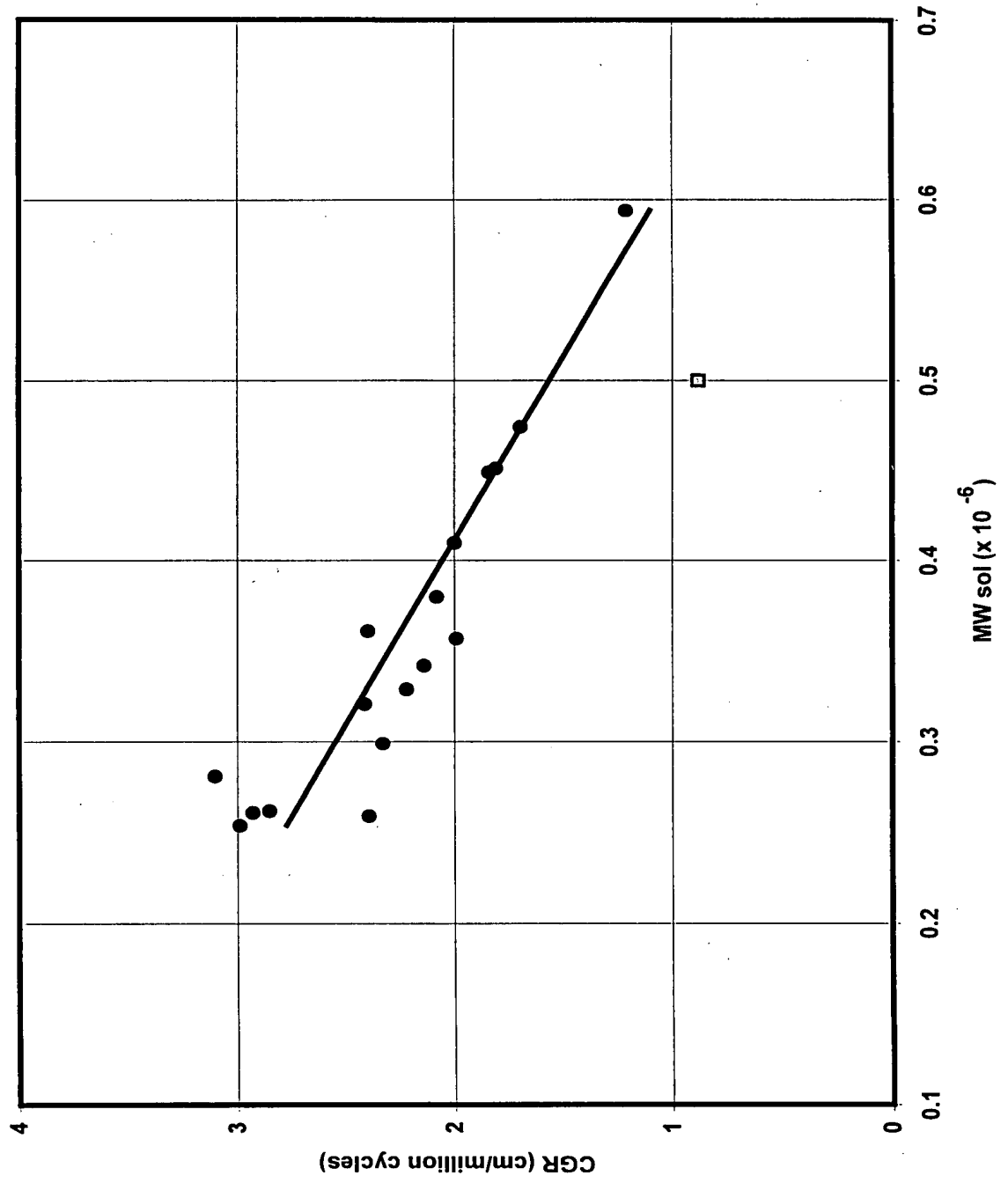


Figure 23 MW sol Effect on Crack Growth Rate
(NR Compounds Containing N326 Carbon Black @ 55 phr Loading)

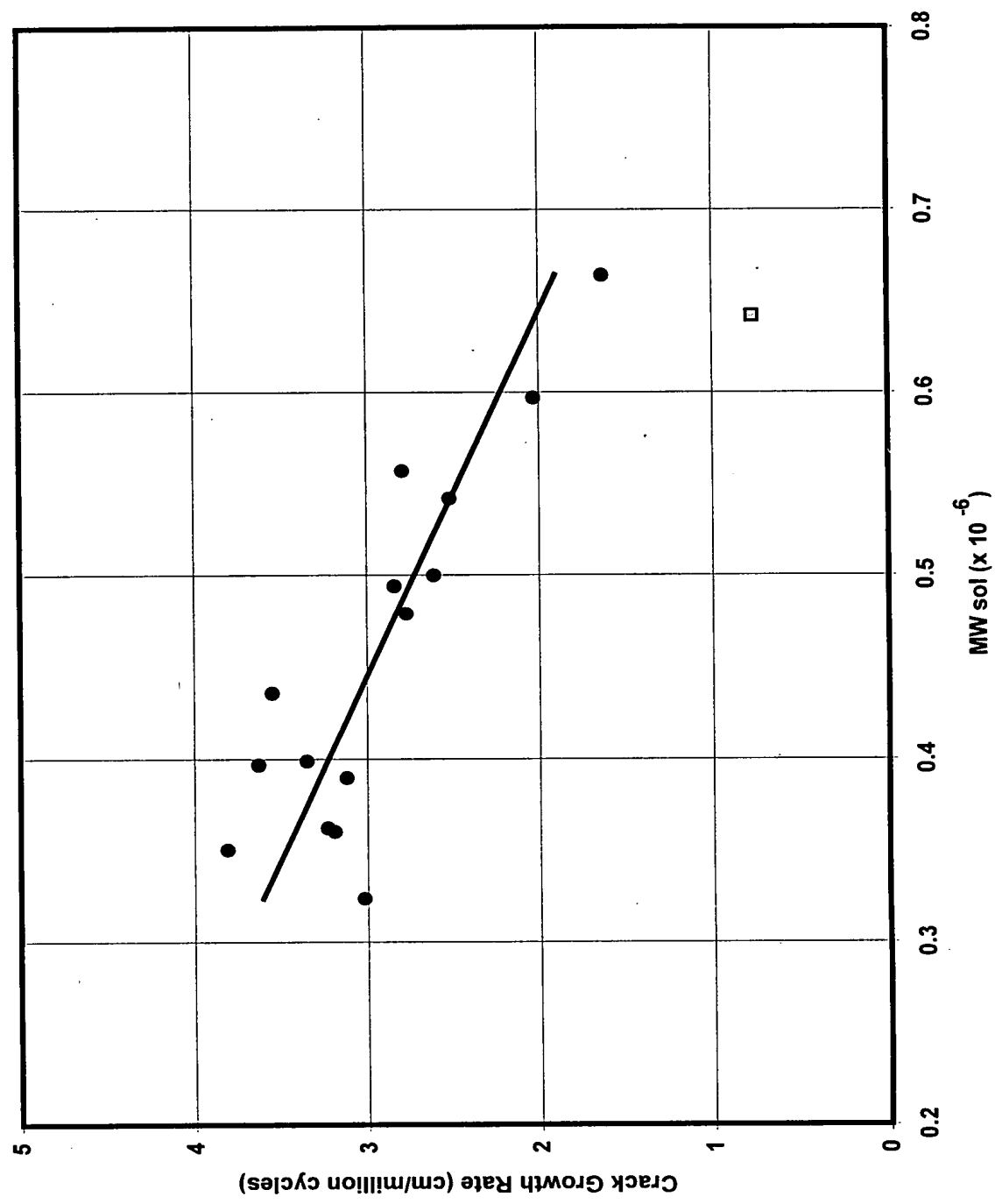


Figure 24 MW sol Effect on Crack Growth Rate
(NR Compounds Containing REGAL 660 Carbon Black @ 55 phr Loading)

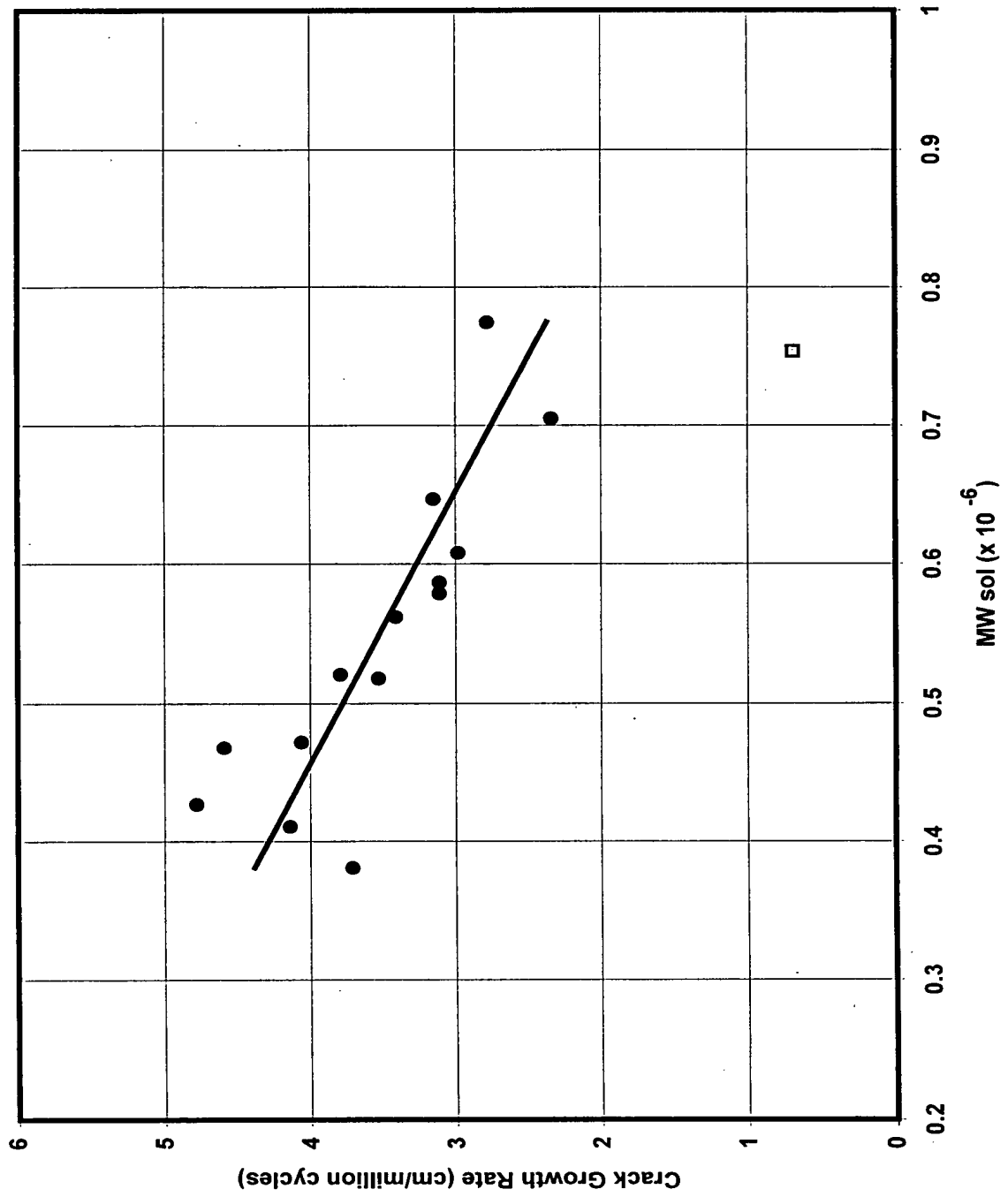


Figure 25 Max. Tan δ (Strain Sweep @ 60°C) of NR Compounds Containing N234
Black at Different Loadings

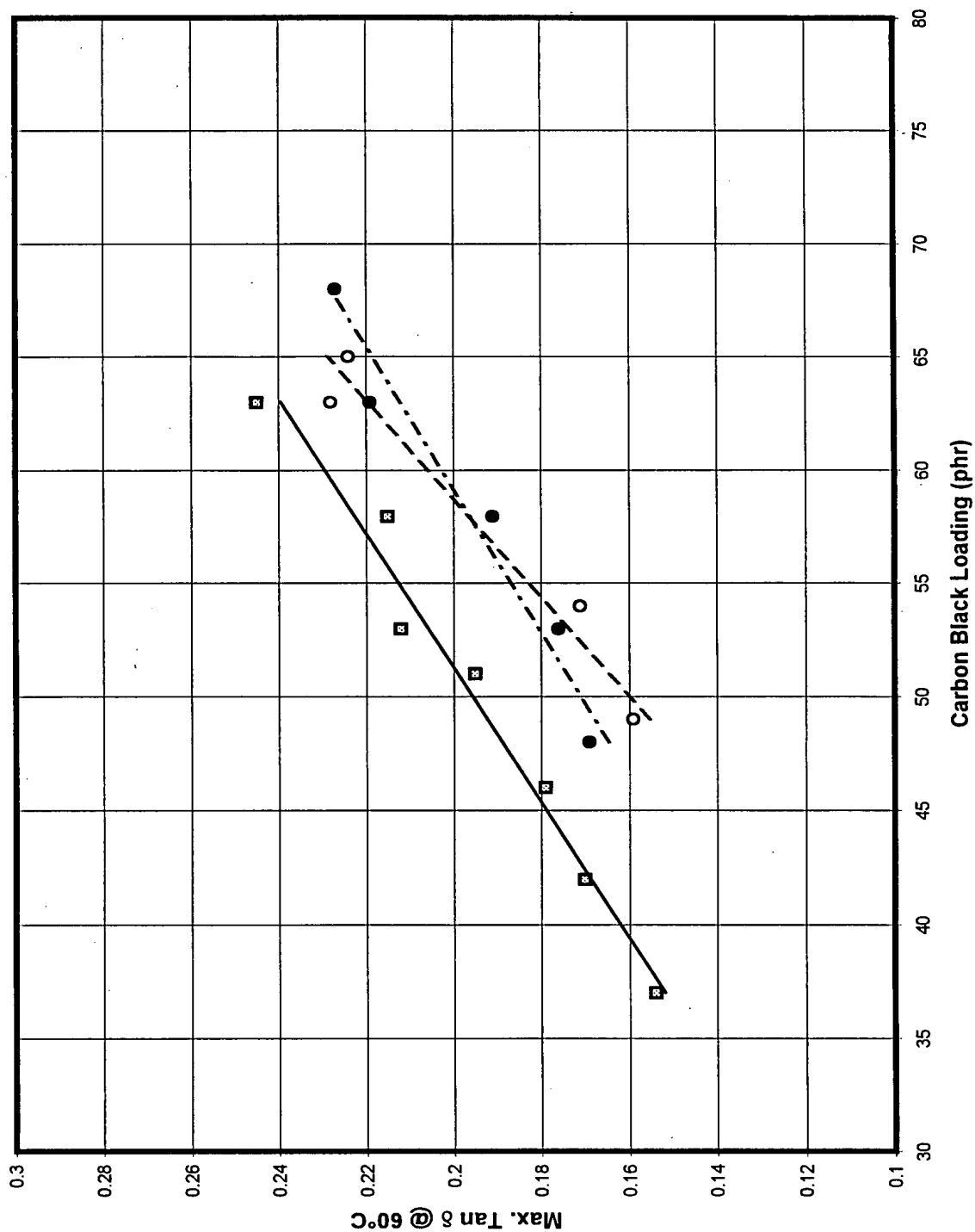


Figure 26. Carbon Blacks in NR Compounds for OTR Tread

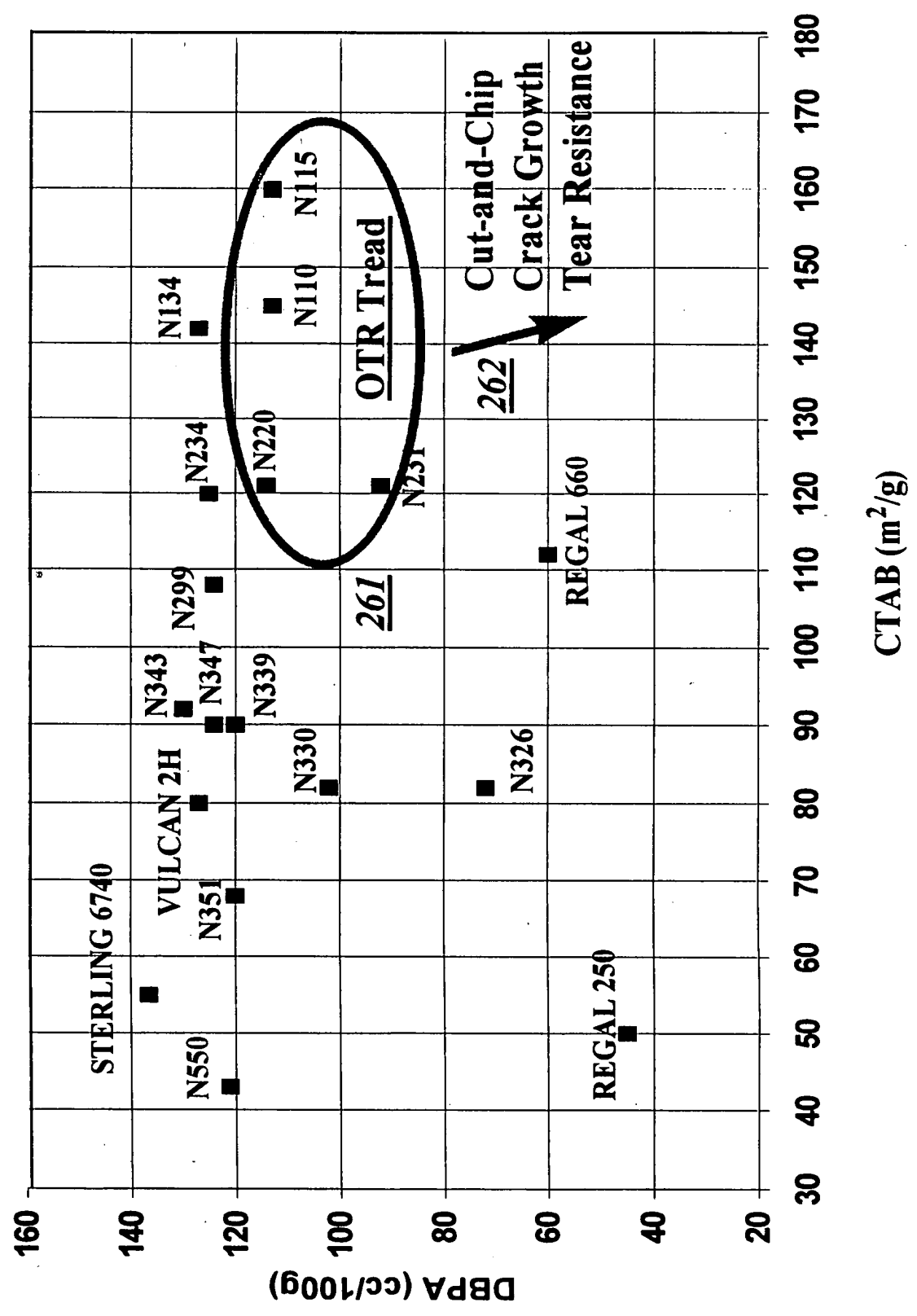


Figure 27. Carbon Blacks in NR Compounds for T/B Tread

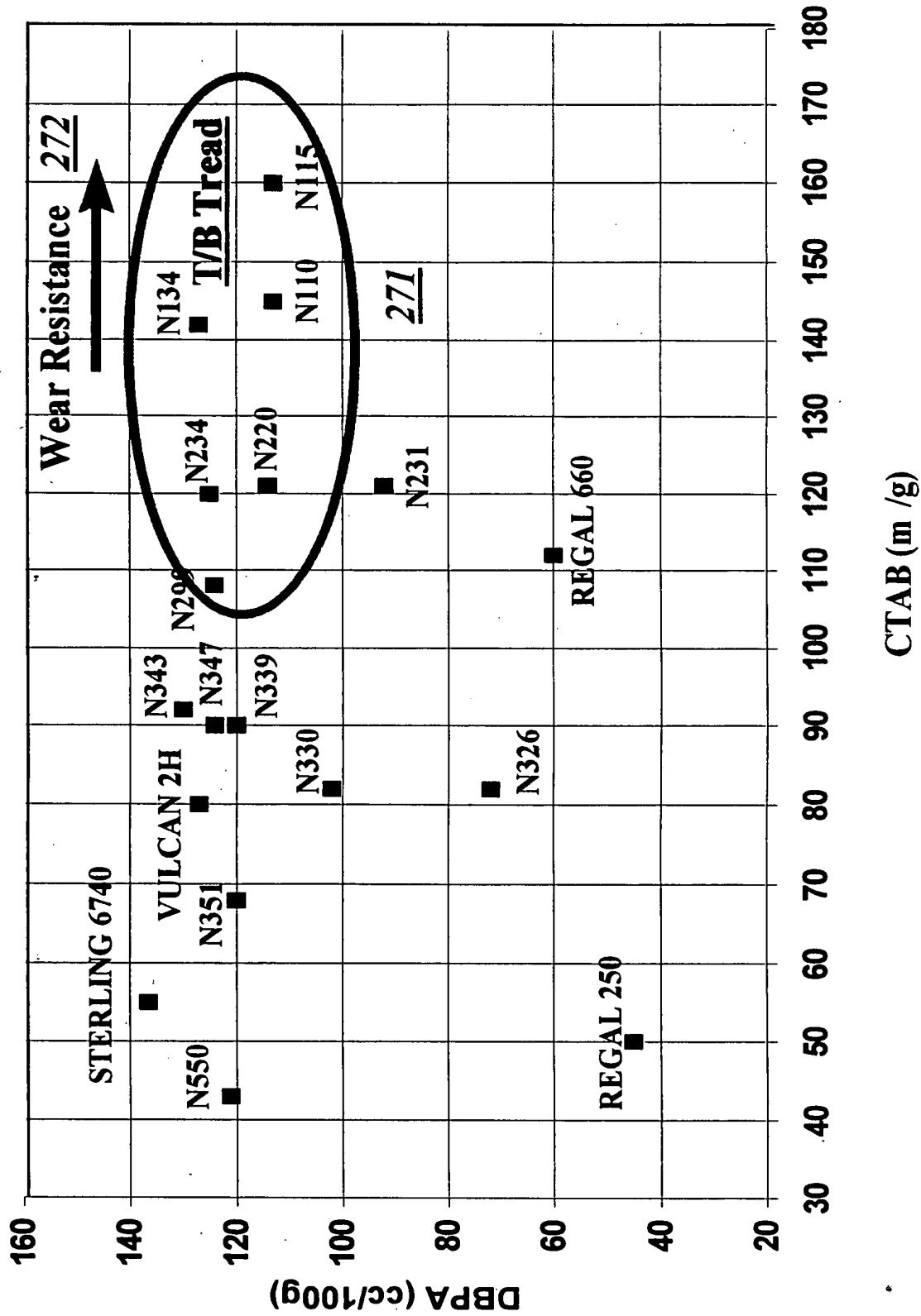


Figure 28 Carbon Blacks in NR Compounds for Tire Applications

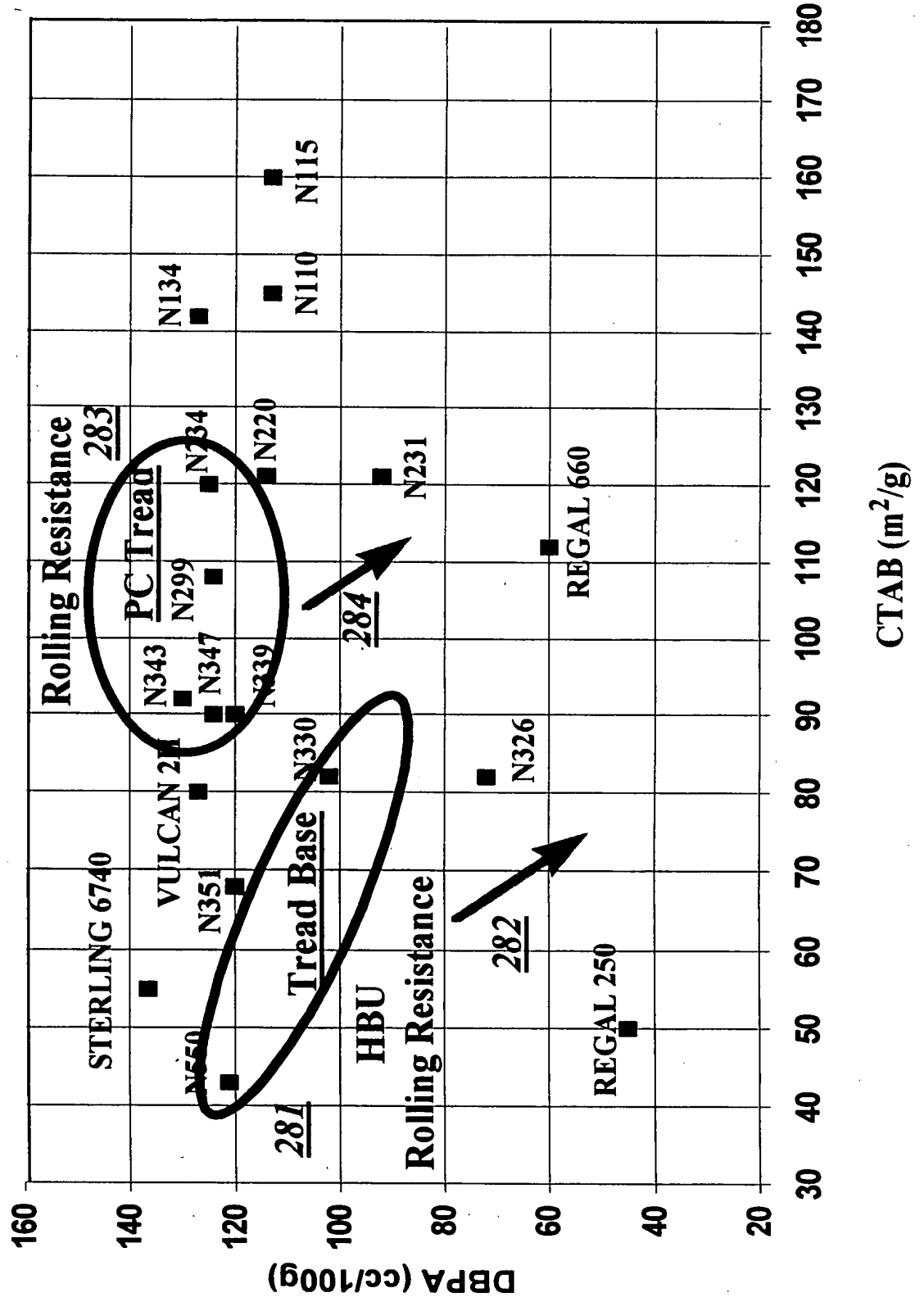


Figure 29. Carbon Blacks in NR Compounds for Tire Applications

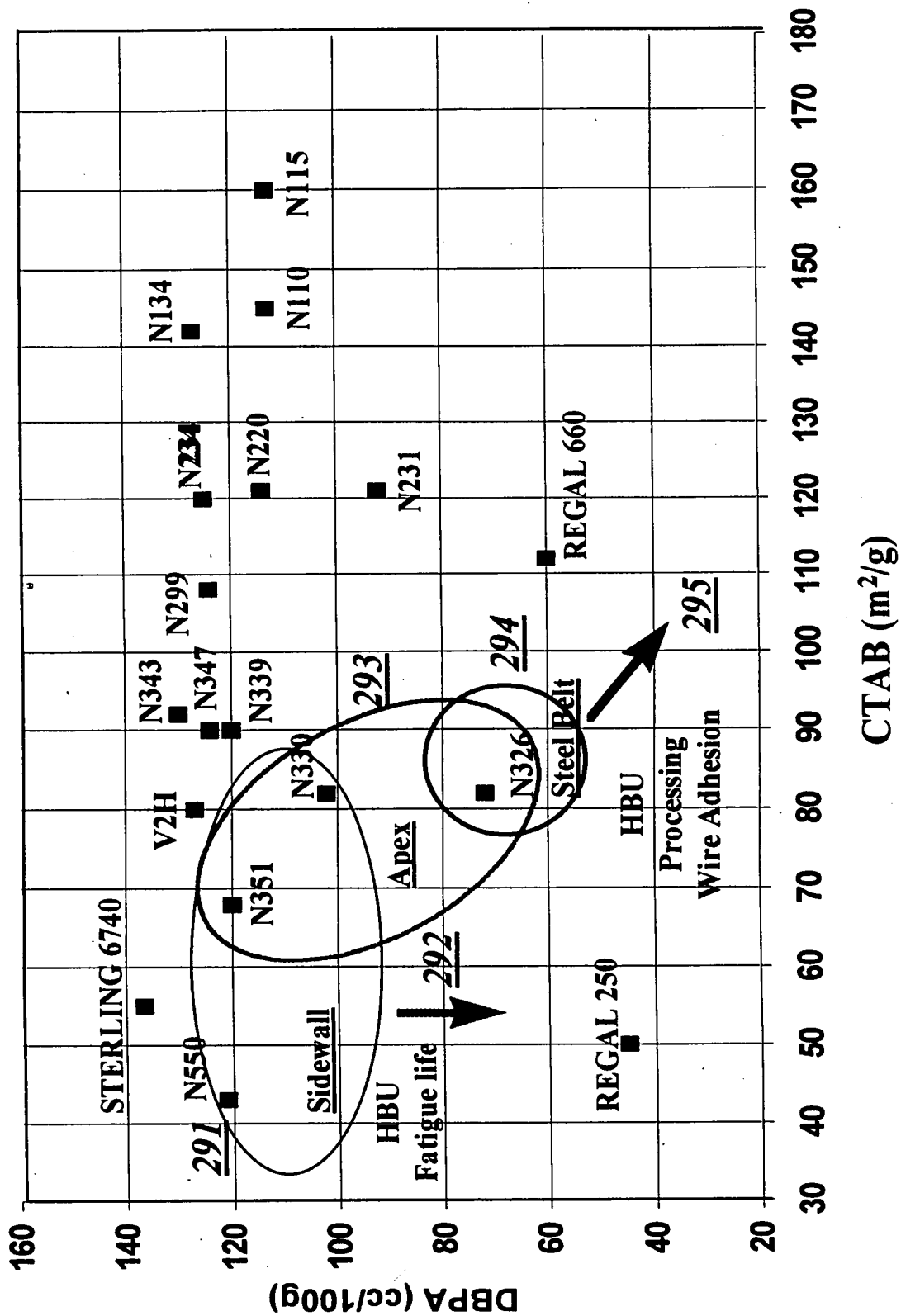
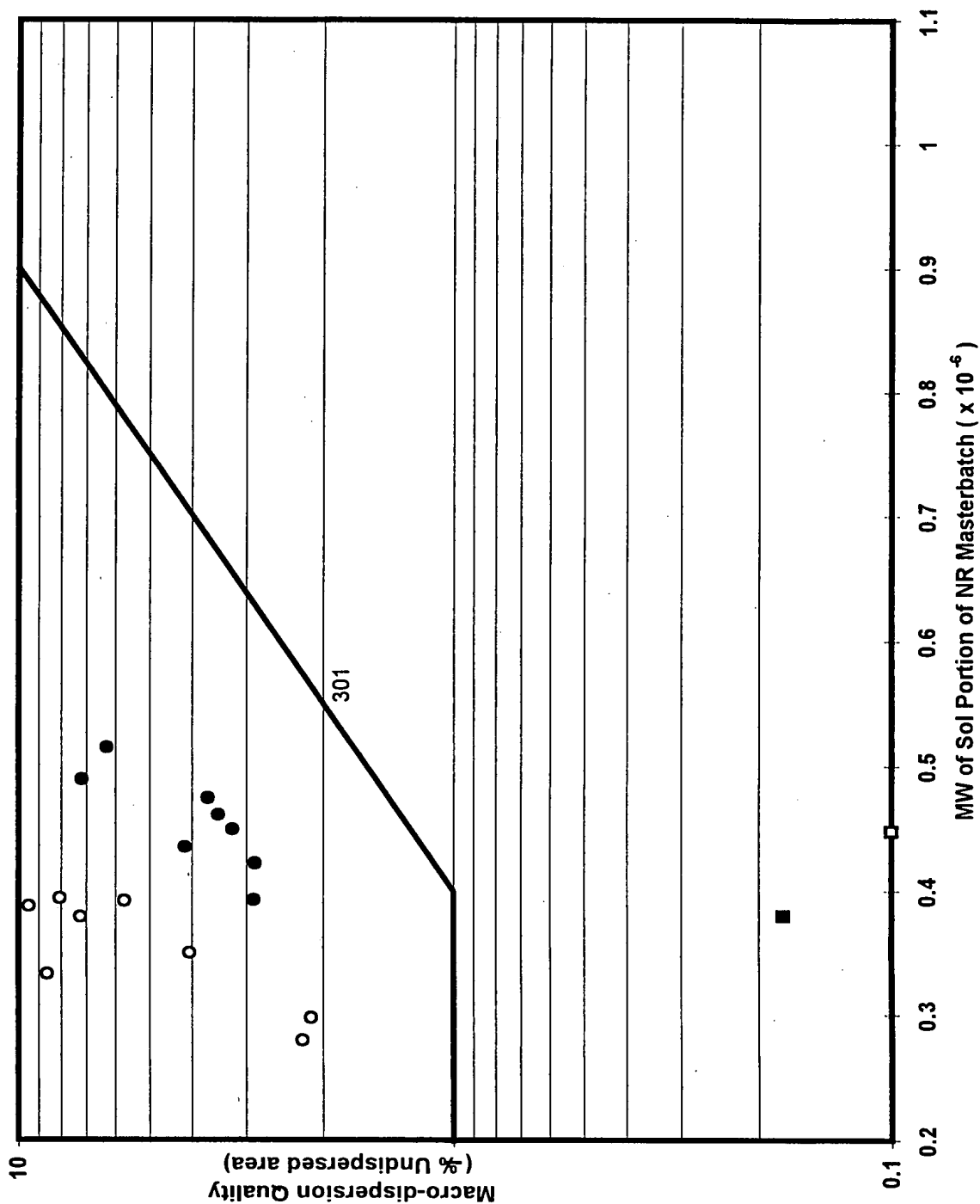


Figure 30 Macro-dispersion Quality and MW of Sol Portion of NR Masterbatch Containing Dual Phase (Carbon Black/Silica) Aggregates



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Figure 31 Macro-dispersion Quality and MW of Sol Portion of NR Masterbatch
Containing Blend of Carbon Black and Silica

